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It is preferable that a second cassette and housing may be coupled and driven either independently or in mechanical linkage 80 with a cassette housing so as to have as many infusion profiles, either in succession or concurrently as is desired for the given flow profiles and applications, as shown in FIGS. 8 and 9.

REMARKS

The Examiner has allowed Claims 1-17 over the prior art of record.

The Examiner has objected to the drawings under 37 CFR 1.83(a). The Examiner argues the drawings must show every feature of the invention specified in the claims. Therefore, at least one cassette has at least two cassettes as set forth in Claim 16, and the at least two cassettes being coupled or driven independently or in mechanical linkage as set forth in Claim 17 must be shown or the feature(s) canceled from the claims. The Examiner further states that a proposed drawing correction or corrected drawings are required in reply to the Office Action to avoid abandonment of the application.

The Examiner also objects to the drawing for the following:

Page 13, Line 13, reference numeral "36" is not shown in the drawings.

Page 13, Line 16, reference numeral "32" is not shown in the drawings.

Page 15, Lines 16, 17 and 19, reference numerals "10", "16", and "60" are not shown in Figure 4.

Page 15, Line 27, reference numeral "10" is not shown in Figure 5.

Page 16, Line 16, reference numeral "14" and "16" are not shown in Figure 6.

Page 16, Line 21, reference numeral "70" is not shown in Figure 5.

Page 17, Line 7, reference numerals "74" and "76" are not shown in Figures 4-5.

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The Examiner requires a proposed drawing correction or corrected drawings in reply to the Office Action to avoid abandonment of the application.

The Examiner objects to the drawings as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign not mentioned in the description: "60". A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign in the description are required in reply to the Office Action to avoid abandonment of the application.

The balance of this Response will respond to the each cited basis of objection.

Traverse Objection to Drawings under 37 CFR 1.83(a)

The Examiner has objected to the drawings under 37 CFR 1.83(a). The Examiner argues the drawings must show every feature of the invention specified in the claims. Therefore, at least one cassette having at least two cassettes as set forth in Claim 16, and the at least two cassettes being coupled and driven independently or in mechanical linkage as set forth in Claim 17 must be shown or the feature(s) canceled from the claims. The Examiner further states that a proposed drawing correction or corrected drawings are required in reply to the Office Action to avoid abandonment of the application.

The Applicant has submitted with this amendment two additional drawing sheets containing Figures 8 and 9. Figures 8 and 9 depict the at least one cassette having at least two cassettes being coupled and driven independently or by mechanical linkage as set forth in Claims 16 and 17. The Applicant requests that these additional drawing sheets be made part of the application.

The following paragraphs have been added at Page 10, Line 16:

FIG. 8 is a perspective view of an embodiment of the medical infusion and aspiration system having two cassettes being driven independently.

FIG. 9 is a perspective view of an embodiment of the medical infusion and aspiration system having two cassettes coupled by mechanical linkage.

The paragraph beginning at Page 17, Line 18 has been amended as follows:

It is preferable that a second cassette and housing may be coupled and driven either independently or in mechanical linkage 80 with a cassette housing so as to have as many infusion profiles, either in succession or concurrently as is desired for the given flow profiles and applications, as shown in FIGS. 8 and 9.

The Applicant stipulates that no new matter has been added to this application. The at least one cassette having at least two cassettes being coupled and driven independently or in mechanical linkage is originally stated in Claims 16 and 17 and described in the original Specification at Page 17, Lines 17-29. The additional drawings show every feature of the invention specified in the claims.

Traverse Objections to Drawing

The Examiner has cited several objections to the drawings. The Examiner has requested proposed drawing corrections or corrected drawings in reply to the Office Action. The Applicant has submitted corrected drawings with this amendment. Applicant respectfully requests the corrected drawings be made part of the application. Figures 3, 4, 5 and 6 have been corrected as detailed below. Applicant stipulates that no new matter has been added to the Figures.

Page 13, Line 13, reference numeral "36" is not shown in the drawings

Figure 3 has been amended as follows:

A central axis line, reference numeral "36" has been added to Figure 3. As stated on Page 13, Lines 11-13, reference numeral "36" is the central axis of the cylindrical tube.

Page 13, Line 16, reference numeral “32” is not shown in the drawings

Page 13, Line 16 of the specification has been amended as follows:

Reference numeral “32” has been corrected to reference numeral “24”.

Page 15, Lines 16, 17 and 19, reference numerals “10”, “16” and “60” are not shown in Figure 4

Figure 4 has been corrected as follows:

Reference numerals “10”, “16” have been added to Figure 4

Applicant stipulates that reference numeral “60” is already shown in the original Figure 4. Reference numeral “60” is the protective cap shown in the middle of the figure. A directional arrow has been added to Figure 4 to indicate the relative position of the protective cap 60 prior to removal from the single piece cassette.

Page 15, Line 27, reference numeral “10” not shown in Figure 5

Figure 5 has been corrected as follows:

Reference numeral “10” has been added to Figure 5.

Page 16, Line 16, reference numeral “14” and “16” are not shown in Figure 6

Figure 6 has been corrected as follows:

Reference numerals “14” and “16” have been added to Figure 6.

Page 16, Line 21, reference numeral "70" is not shown in Figure 5

Figure 5 has been corrected as follows:

Reference numeral "70" has been added to Figure 5.

Page 17, Line 7, reference numerals "74" and "76" are not shown in Figure 4-5

Figure 4 has been corrected as follows:

Reference numerals "74" and "76" have been added to Figure 4.

Figure 5 has been corrected as follows:

Pumping device "40" and reference numerals "74" and "76" have been added to Figure 5. The addition of pumping device "40" to Figure 5 was necessary in order to show reference numerals "74" and "76".

Traverse Objection to Drawing under 37 CFR 1.84(p)(5)

The Examiner objects to the drawings as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign not mentioned in the description: "60". The Examiner requests a proposed drawing correction, corrected drawings or amendment to the specification to add the reference sign in the description.

The Applicant has made an amendment to the specification in the paragraph beginning at Page 13, Line 5 to include the reference number "60". The wording "protective cap" and reference number "60" has been added to Page 13, Line 17. Figure 3 has also been amended to include the protective cap 60.

The Applicant stipulates that no new matter has been added to the specification, as the original drawings include reference number 60. Although the Applicant has amended the

Application to include reference number 60 on Page 13, the Applicant respectfully refers the Examiner to Page 15, Lines 19-20 of the original specification which states "A protective cap 60 is shown removed from the single piece cassette". The protective cap and reference number 60 are in the original description.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached pages are captioned **"Version with markings to show changes made"**.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

The following paragraphs have been added at Page 10, Line 16 as follows:

FIG. 8 is a perspective view of an embodiment of the medical infusion and aspiration system having two cassettes being driven independently.

FIG. 9 is a perspective view of an embodiment of the medical infusion and aspiration system having two cassettes coupled by mechanical linkage.

Paragraph beginning at Page 13, Line 5 has been amended as follows:

In the preferred embodiment, the housing 14 consists of a cylindrical tube that is sealed at the upper end, as shown in FIG. 3. The housing 14 is preferably made of plastic, however, any suitable commercially available material may be used. The bottom 38 of the housing is preferably open and the inner surface 42 of the housing is threaded. Any standard or metric thread size may be used. A plunger 16 is preferably connected to the sealed end 50 and is suspended in alignment with the central axis of the cylindrical tube 36. The housing 14 is sized to threadedly receive the cartridge 12. In the preferred embodiment, there is a plurality of openings 44 cut through the housing 14 parallel to the central axis of the cylindrical tube 36. These openings 44 allow for normally trapped air to be exhausted as the plunger 16 either advances or retards. The plurality of openings 44 also creates an inspection window 46 within the housing 14. The inspection window 46 also allows access to the optical or electromagnetic strip within the encoded area 24 ~~32~~. A lip 48 at the bottom 38 of the housing 14 provide for a manually removable protective cap 60 ~~cover~~ used to protect the cartridge from contamination or damage to the plunger 16. The housing 14 may be made in a clamshell or disassembled manner for easy withdrawal.

Paragraph beginning at Page 17, Line 8 has been amended as follows:

It is preferable that a second cassette and housing may be coupled and driven either independently or in mechanical linkage 80 with a cassette housing so as to have as many infusion profiles, either in succession or concurrently as is desired for the given flow profiles and applications, as shown in FIGS. 8 and 9.